

STATE OF OREGON



Board of Medical Imaging

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BEHAVIORAL OBJECTIVES & TEACHING GUIDE BONE DENSITOMETRY EQUIPMENT OPERATORS

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DEFINITIONS

ARRT	is an acronym for: American Registry of Radiologic Technology
Distance Learning	Represents a qualified learning method using electronic means to communicate
OBMI	Is an acronym for: Oregon Board of Medical Imaging

I. COURSE OBJECTIVES

The training objective for this course is to provide information regarding radiation use and safety, anatomy, positioning, technical information and the use of x-ray bone densitometry equipment in order to insure the applicant:

1. Acquires a working knowledge of the Bone Densitometry process and;
2. Has the knowledge base to pass the American Registry of Radiologic Technology's (ARRT) examination for Bone Densitometry Equipment Operators.

This program is intended to meet both didactic and practical requirements as stated in Oregon Administrative Rule (OAR) 337-010-0030(6). The program will be a minimum of twenty-four (24) hours in length, including at least 20 hours of instruction in radiation use and safety specific to bone densitometry.

After the completion of this program, the student must pass the written examination provided or approved by the instructor. The student has a maximum of one year from the time of completion of the bone densitometry equipment operators' course to pass the written examination required per OAR 337-010-0030(7)(c).

A. FACILITIES and EQUIPMENT

1. The training facility shall provide student for instruction in a classroom, via distance learning approved by the OBMI, or a room or area with an acceptable learning atmosphere.
2. The training facility shall have available either computer workstation(s) with current analysis software for student use, a library, or remote electronic access; which provides essentially the same material. Sufficient resource material shall be available, so that each student has adequate access during the course of instruction.
3. In addition, the training facility shall have access to a properly calibrated and maintained x-ray bone densitometry system for practical demonstration of positioning and scanning procedures, and have the necessary aids for

demonstrating patient positioning.

B. ORGANIZATION

1. The program shall be overseen by an OBMI-approved instructor with expertise in "Radiation Use & Safety" instruction
2. Each instructor shall possess at least one of the following qualifications:
 - a. Diagnostic radiographer licensed by the OBMI and having at least six month's experience performing x-ray bone densitometry procedures, or
 - b. Limited license as a Bone Densitometry Equipment Operator with at least one year's experience including a minimum of 200 current patient hours using x-ray bone densitometry, or
 - c. Other persons approved by the OBMI
3. The instructors will be responsible for classroom and distance instruction of bone densitometry procedures and radiation use and safety. They will also be responsible for maintaining records according to the standards set forth in these criteria.

C. ADMINISTRATIVE POLICIES, RECORDS, AND REPORTS

1. All records shall be kept current and shall be readily available for inspection by any member of the OBMI or their designee.
2. The following records shall be kept on file at the instructional facility:
 - a. Names and qualifications of instructors
 - b. Course outlines
 - c. Course delivery method
 - d. Standards for grading
 - e. Final examinations

3. Within seven days after a course of instruction's completion, the names and addresses of students who have attended the course, and whether they have passed or failed, must be sent to the OBMI
4. The OBMI must be notified immediately, if there is a change of course instructors
5. The following records shall be submitted to the OBMI for approval prior to the start of the program:
 - a. Name and qualifications of the program supervisor
 - b. Names and qualifications of the program instructors
 - c. Course outlines
 - d. Course delivery method
 - e. Grading standards

II. COURSE OF INSTRUCTION

The program shall provide evidence of developing and implementing a course of instruction that reflects the current “Content Specifications for the Bone Densitometry Equipment Operators Examination” published by the ARRT and other Board requirements. The curriculum shall include, but is not limited to:

1. Basic Concepts
2. Equipment Operation and Quality Control
3. Radiation Use and Safety
4. Anatomy, positioning, and scanning of all appropriate body regions
5. Cultural diversity and sensitivity in patient populations